



## Sustainable Offshore and Ocean Engineering Applications: Computational Hydrodynamics and Aerodynamics

Guest Editors:

**Prof. Dr. Ling Qian**

Department of Computing and  
Mathematics, Manchester  
Metropolitan University,  
Manchester M1 5GD, UK

**Prof. Dr. Mi-An Xue**

Key Laboratory of Ministry of  
Education for Coastal Disaster  
and Protection, Hohai University,  
Nanjing 210024, China

Deadline for manuscript  
submissions:

**closed (30 April 2022)**

### Message from the Guest Editors

Dear Colleagues,

To achieve sustainable development in offshore and ocean engineering, computational fluid dynamics (CFD) will have an important role to play. For example, to evaluate the survivability of floating offshore wind turbines (FOWTs) under extreme marine conditions, i.e., storms, high-fidelity CFD models are needed in order to accurately predict highly non-linear wave-support structure and wind-turbine rotor interactions as well as the complex interplay between the hydrodynamic and aerodynamic loads.

The aim of this Special Issue is to disseminate the latest advancements in CFD techniques for sustainable offshore and ocean engineering applications. A key focus will be on the development of efficient multi-physics and multi-scale models which can be used to aid the design and deployment of next-generation offshore engineering structures...

Dr. Ling Qian  
Dr. Mi-An Xue  
*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)